

A Project Report On

Brainstrom

Submitted in partial fulfillment of the requirement for
the award of the degree

Bachelor of Computer Application (BCA)

Academic Year 2019 – 20

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Marwadi
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Rajkot-Morbi Road, At & PO : Gauridad, Rajkot 360 003. Gujarat. India.



Faculty of Computer Applications (FCA)

Certificate

This is to certify that the project work entitled
Brainstrom
submitted in partial fulfillment of the requirement
for the award of the degree of
Bachelor of Computer Application
of the
Marwadi University
is a result of the bonafide work carried out by
Rajan Thakkar - 91700545005
Jay Buddhbhatti - 91700527092
during the academic year 2019 – 2020

Faculty Guide

HOD

External Viva

Name of the Examiners

Signature with Date



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Signature with Date

DECLARATION

We hereby declare that this project work entitled **Brainstrom** is a record done by me.

We also declare that the matter embodied in this project is genuine work done by me and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Place :

Date :

Rajan Thakkar - 91700545005 Signature : _____

Jay Buddhbhatti - 91700527092 Signature : _____

ACKNOWLEDGEMENT

It is indeed a great pleasure to express my thanks and gratitude to all those who helped me. No serious and lasting achievement or success one can ever achieve without the help of friendly guidance and co-operation of so many people involved in the work.

We are very thankful to my guide **Prof. Jitesh Solanki**, the person who makes me to follow the right steps during a project work. We express my deep sense of gratitude to for his guidance, suggestions and expertise at every stage. A part from that his valuable and expertise suggestion during documentation of my report indeed help me a lot.

Thanks to my friend and colleague who have been a source of inspiration and motivation that helped to me during my project work.

We would heartily thankful to head and DEAN of our department **Dr. Sunil Bajaja and Dr. R. Sridaran** to give me an opportunity to work over this report and for their end-less and great support. And to all other people who directly or indirectly supported and help me to fulfill my task.

Rajan Thakkar - 91700545005 Signature : _____

Jay Buddhbhatti - 91700527092 Signature : _____

CONTENTS

Chapters	Particulars	Page No.
1	SYNOPSIS	1
2	PREAMBLE	
2.1	General Introduction	2
2.2	Statement of Problem	3
2.3	Objective of the Study	4
2.4	Scope of the Study	5
2.5	Feasibility Study	6
3	REVIEW OF LITERATURE	
3.1	What is PHP ?	7
3.2	About mySQL	9
3.3	Kahoot	9
4	TECHNICAL DESCRIPTION	
4.1	Hardware Requirement	10
4.2	Software Requirement	10
5	SYSTEM DESIGN AND DEVELOPMENT	
5.1	Class Diagram	11
5.2	Use Case Diagram	12
5.3	Sequence Diagram	13
5.4	Activity Diagram	14
5.5	Data Flow Diagram	15
5.6	Table Structure	18
5.7	Menu Design	20
5.8	Screen Design	21
6	SYSTEM TESTING	
6.1	Testing Methodology	33
6.2	Unit Testing	35
6.3	Validation Checking	36
7	CONCLUSION	38
8	LEARNING DURING PROJECT WORK	39
9	BIBLIOGRAPHY	
9.1	Online References	40
9.2	Offline References	40

FIGURE INDEX

Sr. No.	Figure No.	Particulars	Page No.
1	5.1.1	Class Diagram	11
2	5.2.1	Use Case Diagram	12
3	5.3.1	Sequence Diagram (User)	13
4	5.3.2	Sequence Diagram (Instructor)	13
5	5.4.1	Activity Diagram	14
6	5.5.1	Data Flow Diagram Level-0	15
7	5.5.2	Data Flow Diagram Level-1 (Admin)	15
8	5.5.3	Data Flow Diagram Level-1 (Instructor)	16
9	5.5.4	Data Flow Diagram Level-1 (Student)	16
10	5.5.5	Data Flow Diagram Level-2 (Admin)	17
11	5.5.6	Data Flow Diagram Level-2 (Instructor)	17
12	5.7.1	Main Menu	20
13	5.7.2	Admin Menu	20
14	5.7.3	Instructor Menu	20
15	5.7.4	Student Login Menu	20
16	5.8.1	Main Page	21
17	5.8.2.1	Student Signup	21
18	5.8.2.2	Student Login Page	22
19	5.8.2.3	Student Home Page	22
20	5.8.2.4	Student History Page	23
21	5.8.2.5	Student Ranking Page	23
22	5.8.3.1	Admin Login	24
23	5.8.3.2	Admin Home Page	24
24	5.8.3.3	Admin Instructor Page	25
25	5.8.3.4	Admin User Page	25
26	5.8.3.5	Admin Ranking Page	26
27	5.8.3.6	Admin Feedback Page	26
28	5.8.3.7	Admin Add Quiz Page	27
29	5.8.3.8	Admin Remove Quiz Page	27
30	5.8.4.1	Instructor Signup Page	28
31	5.8.4.2	Instructor Login Page	28
32	5.8.4.3	Instructor Home Page	29
33	5.8.4.4	Instructor User Page	29
34	5.8.4.5	Instructor Ranking Page	30
35	5.8.4.6	Instructor Add Quiz Page	30
36	5.8.4.7	Instructor Remove Quiz Page	31
37	5.8.5	Developers Page	31
38	5.8.6	Feedback Page	32
39	6.1.1	Black Box Testing Diagram	33
40	6.1.2	White Box Testing Diagram	34

TABLE INDEX

Sr. No.	Table No.	Particulars	Page No.
1	5.6.1	User Table	18
2	5.6.2	Question Table	18
3	5.6.3	Answer Table	18
4	5.6.4	Rank Table	19
5	5.6.5	Quiz Table	19
6	5.6.6	Feedback Table	19
7	5.6.7	Admin Table	19
8	6.3.1	Validation Checking (Test Case-1 Name Filed)	36
9	6.3.2	Validation Checking (Test Case-2 College Filed)	36
10	6.3.3	Validation Checking (Test Case-3 Email Filed)	36
11	6.3.4	Validation Checking (Test Case-4 Mobile Number Filed & Length Check)	36
12	6.3.5	Validation Checking (Test Case-5 Password Filed & Length Check)	37

1. Synopsis

Online quiz are an important method of evaluating the knowledge of students. This research effort the individuals under consideration were students who would be enrolling in computer courses or Technologies Registrations. A prototype of a web-based quiz system is described from the standpoint of the research effort, end user, and software development. An instructor builds a questions based on different topics.

Users enrolled in the platform may access the electronic details they provided and perform various functions with the on-line educational system in order to participate in the on-line quiz. Users can receive an on-line exam, having multimedia content, for the course, and they can electronically provide answers for the quiz and after Completion of their duration of quiz they are provided the grade or marks secured in their quiz.

2. Preamble

2.1 General Introduction

On-line quiz providers to focus on creating effective assessment questions and focusing on quiz's feedback delivery to students. In the paper we present techniques that are pertinent to the elements of assessment process: answers submission, computerized grading, and feedback after submission.

As the modern organizations are automated and computers are working as per the instructions, it becomes essential for the coordination of human beings, commodity and computers in a modern organization.

The administrators, instructor, Students who are attending for online examination can communicate with the system through this projects, thus facilitating effective implementation and monitoring of various activities of Online quiz like conducting Exams as per scheduled basis and delivering result to that particular use or student and the details of students who attempted Online quiz are maintained at administrator.

2.2 Statement of Problem

In offline or manual system we cannot maintain records properly. In manual system students have a quiz in the paper and their will be mark a answer in the paper. So, many time students will mistake and also the checking time which is check by instructor take more. So, a manual system is very time consuming and also not interesting like a online quiz. In the online quiz students don't use paper. So, the time which is take more by instructor for checking it will not happen. It is not a time consuming and also students are interested for the participate.

2.3 Objective of the Study

To maintain records properly and enroll more in the quiz. We create this web-based quiz. In this website all students details will store in database and also instructor create a quiz it is also store in the database. We can also view our old records. That's why online quiz system is very faster, safe and easier than manual system.

2.4 Scope of the Study

In future we will also attach cloud system. We can also create an android application for students. So, they can give quiz to anytime and anywhere.

2.5 Feasibility Study

2.5.1 Economic Feasibility :-

Basically this website is develop in a PHP, JavaScript, jQuery, Bootstrap. We don't afraid of cost & the benefit is high because this is based on online.

2.5.2 Technical Feasibility :-

This website will run in any device. We already have a computer in which we develop our project. So, don't have to afraid about technical feasibility.

2.5.3 Operational Feasibility :-

The drawback of manual system we can create this website. In this website we store data in proper manner, display our quiz, students details, questions, answers, options etc.

3. REVIEW OF LITERATURE

3.1 What is PHP

- The full form of PHP is “Hypertext Preprocessor”. Its original name was “Personal Home Page”
- Rasmus Lerdorf software engineer, Apache team member is the creator and original driving force behind PHP. The first part of PHP was developed for his personal use in late 1994. By the middle of 1997, PHP was being used on approximately 50,000 sites worldwide.
- PHP is server-side scripting language, which can be embedded in HTML or used as a stand-alone.
- PHP doesn't do anything about what a page looks and sounds like. In fact, most of what PHP does is invisible to the end user.
- Someone looking at a PHP page will not necessarily be able to tell that it was not written purely in HTML, because usually the result of PHP is HTML.
- PHP is an official module of Apache HTTP Server.
- PHP is fully cross-platform, meaning it runs native on several flavors of Unix, as well as on Windows and now on Mac OS X.

Advantages of PHP

- **Cost** : PHP costs you nothing. It is open source software and doesn't need to purchase it for development.
- **Ease of Use** : PHP is easy to learn, compared to the others. A lot of Ready-made PHP scripts are freely available in market so, you can use them in your project or get some help from them.
- **HTML- Support** : PHP is embedded within HTML; In other words, PHP pages are ordinary HTML pages that escape into PHP mode only when necessary. When a client requests this page, the web server preprocesses it. This means it goes through the.
- page from top to bottom, looking for sections of PHP, which it will try to resolve.
- **Cross-platform compatibility** : MySQL run native on every popular flavor of Unix and windows. A huge percentage PHP and of the world's HTTP servers run on one of these two classes of operating system.
- **PHP is compatible with the three leading Web servers** : Apache HTTP Server for Unix and Windows, Microsoft Internet Information Server, and Netscape Enterprise Server. It also works with several lesser-known servers, including Alex Blits' fhttpd, Microsoft's Personal Web Server, AOL Server and Omnicentrix's Omni server application server.

- **Stability :** The word stable means two different things in this context:
 - The server doesn't need to be rebooted often
 - The software doesn't change radically and incompatibly from release to release. To our advantage, both of these apply to both MySQL and PHP.
- **Speed :** PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. Although it takes a slight performance hit by being interpreted rather than compiled, this is far outweighed by the benefits PHP derives from its status as a Web server module.

3.2 About MySQL

MySQL Database Management System

- MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by MySQL AB.
- MySQL AB is a commercial company, founded by the MySQL developers. It is a second generation Open Source Company that unites Open Source values and methodology with a successful business model.
- The MySQL Web site (<http://www.mysql.com/>) provides the latest information about MySQL software and MySQL AB.
- The official way to pronounce “MySQL” is “My Ess Que Ell” (not “my sequel”), but we don't mind if you pronounce it as “my sequel” or in some other localized way.

MySQL Features :

- MySQL is a database management system.
- MySQL is a relational database management system.
- MySQL software is Open Source.
- The MySQL Database Server is very fast, reliable, and easy to use.
- MySQL Server works in client/server or embedded systems.

3.3 We have reference Kahoot

Kahoot is a free game-based platform where students can participate and get a response from the teachers in real time. The Kahoot tool is like an advanced platform for learning and playing games. The platform also lets others create and launch their own games so other players can also play and explore the new games every day. The platform is used by millions of people around the world to discover, play and share a variety of games with others. It's like a collaborative platform for learning new things on a daily basis.

4. TECHNICAL DESCRIPTION

4.1 Hardware Requirement

All the devices which have browser inside it. So, it will run website.

4.2 Software Requirement

If we hosting our website so there is no need of any software but at now a computer have PHP, browser, xampp so they can easily run our Brainstrom project.

5. SYSTEM DESIGN AND DEVELOPMENT

5.1 Class Diagram

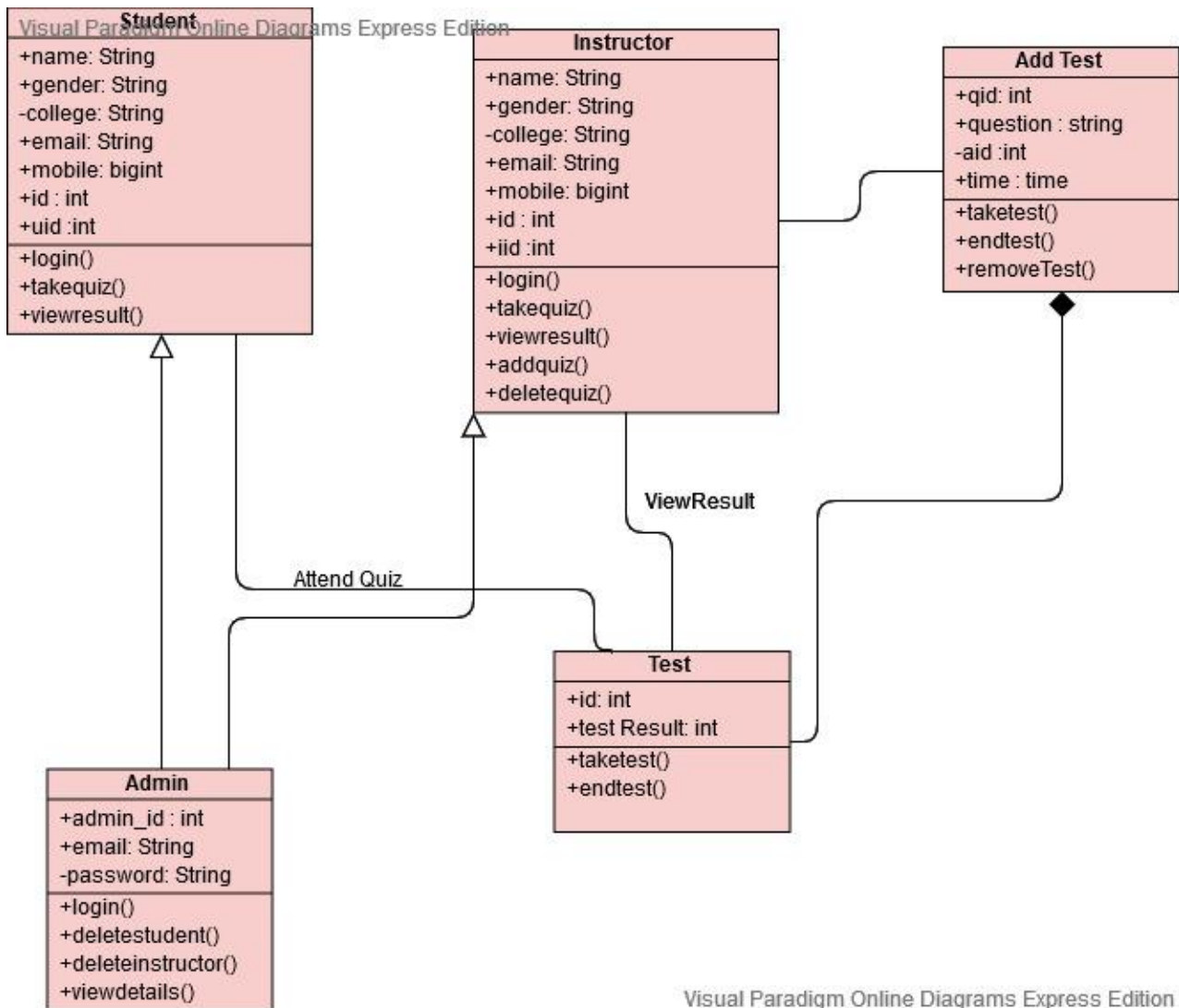


Figure 5.1.1

5.2 Use Case Diagram

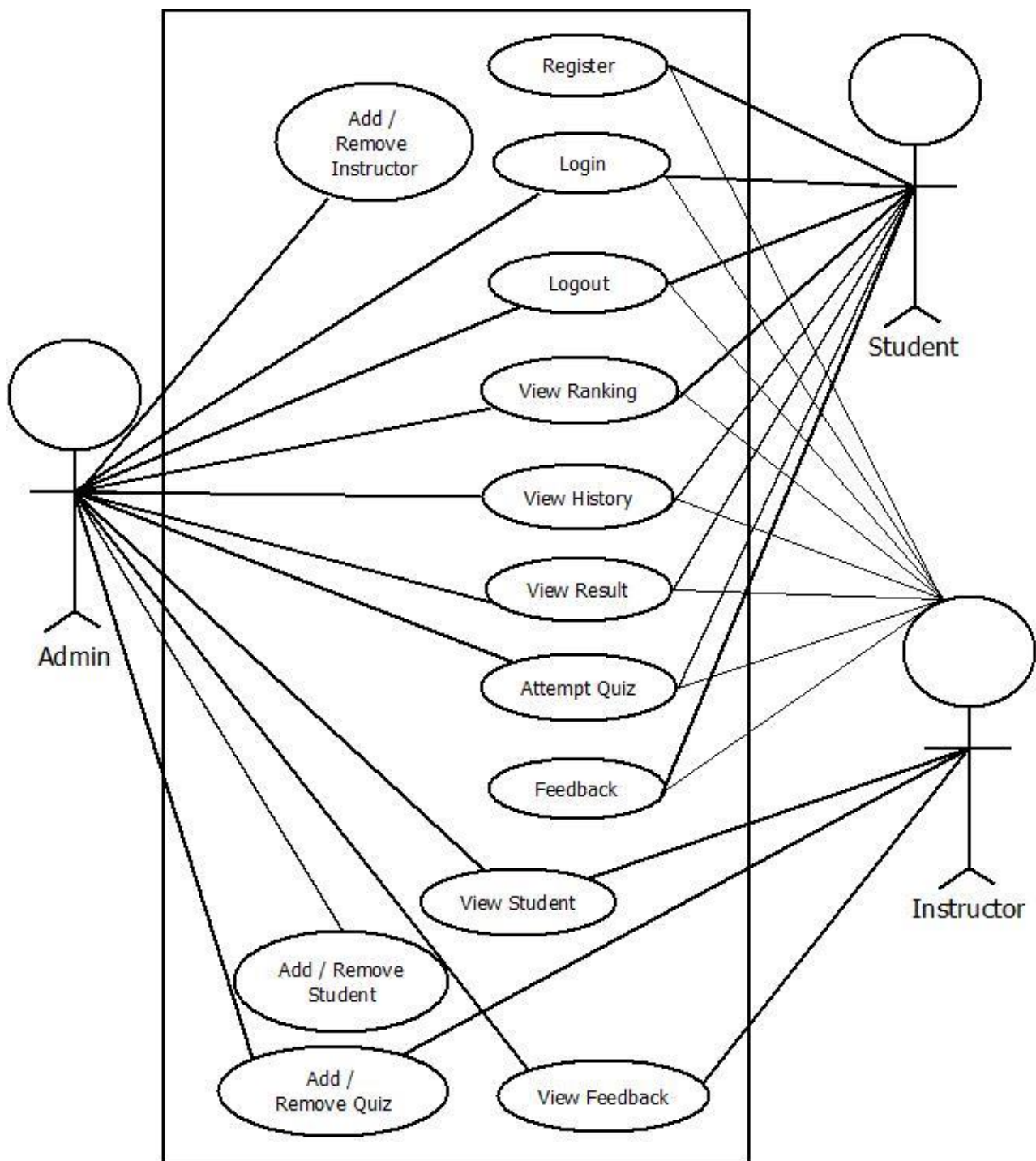


Figure 5.2.1

5.3 Sequence Diagram

5.3.1 User :-

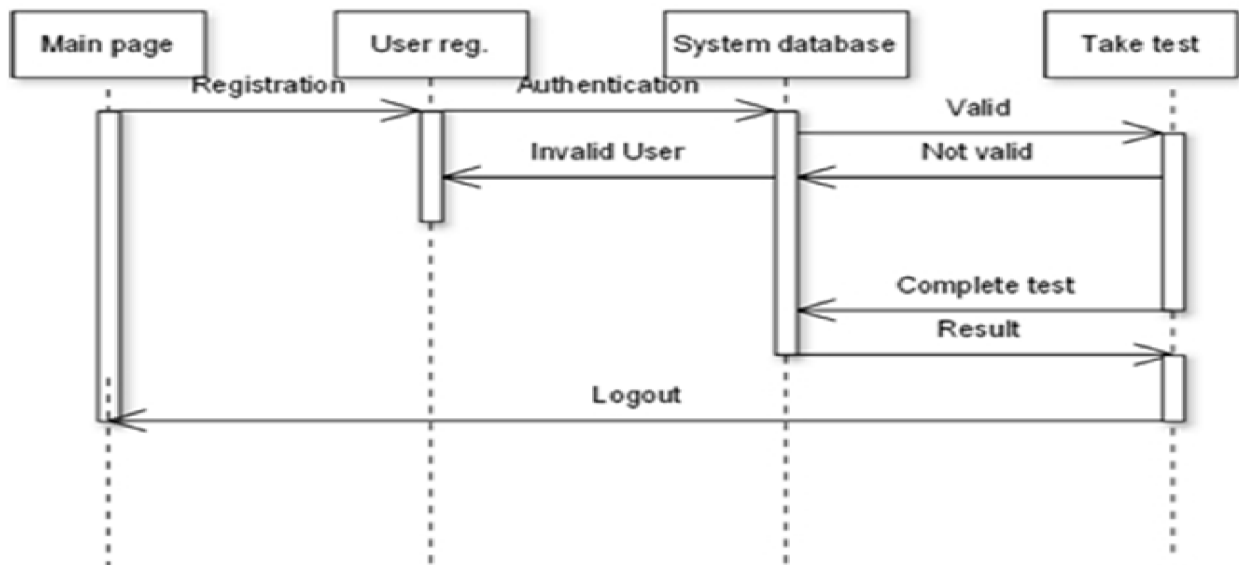


Figure 5.3.1

5.3.2 Instructor :-

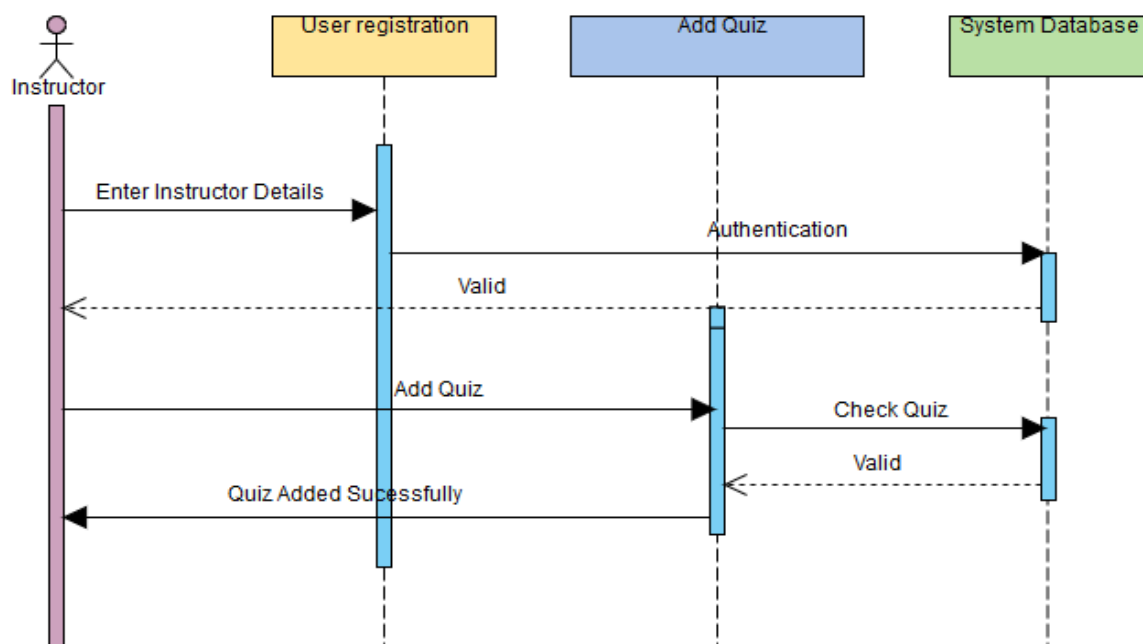


Figure 5.3.2

5.4 Activity Diagram

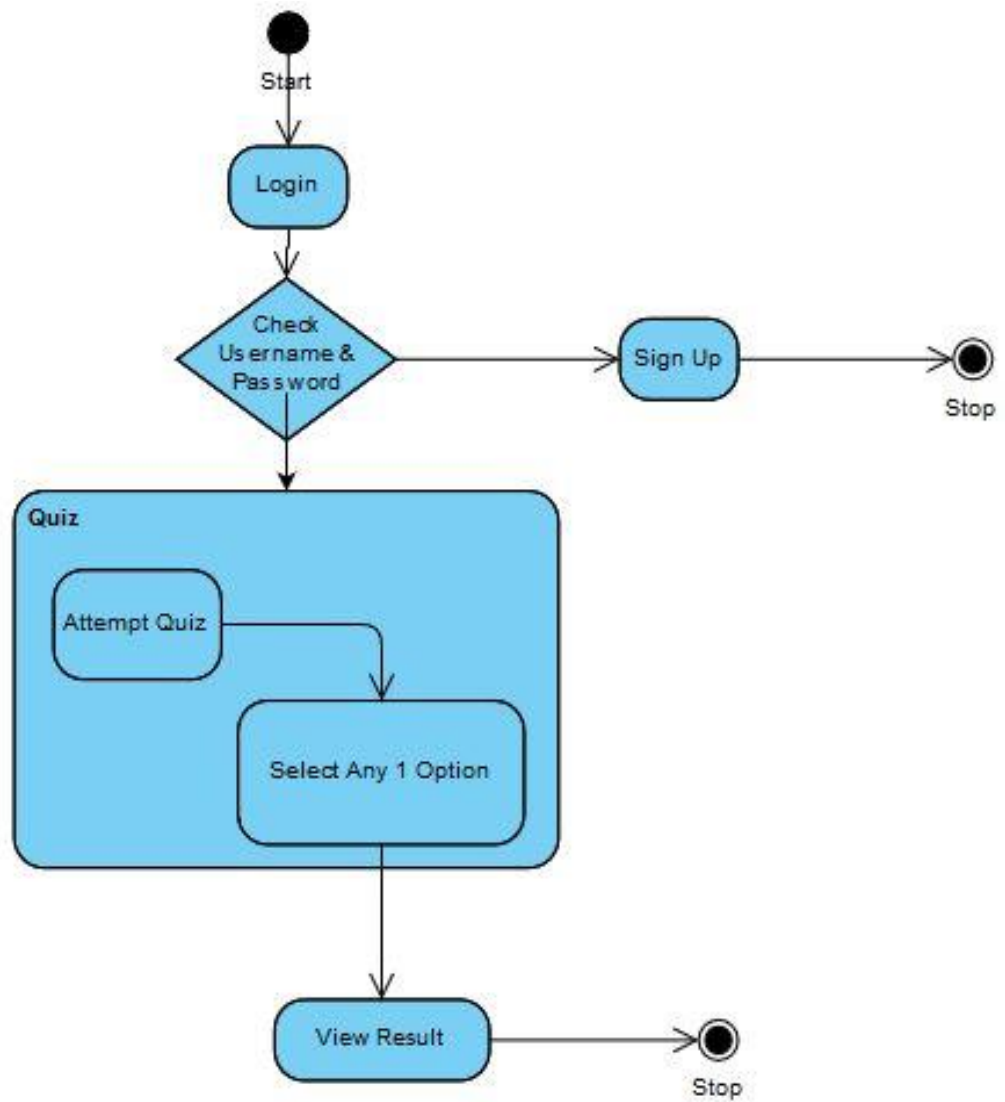


Figure 5.4.1

5.5 Data Flow Diagram

5.5.1 DFD 0 :-

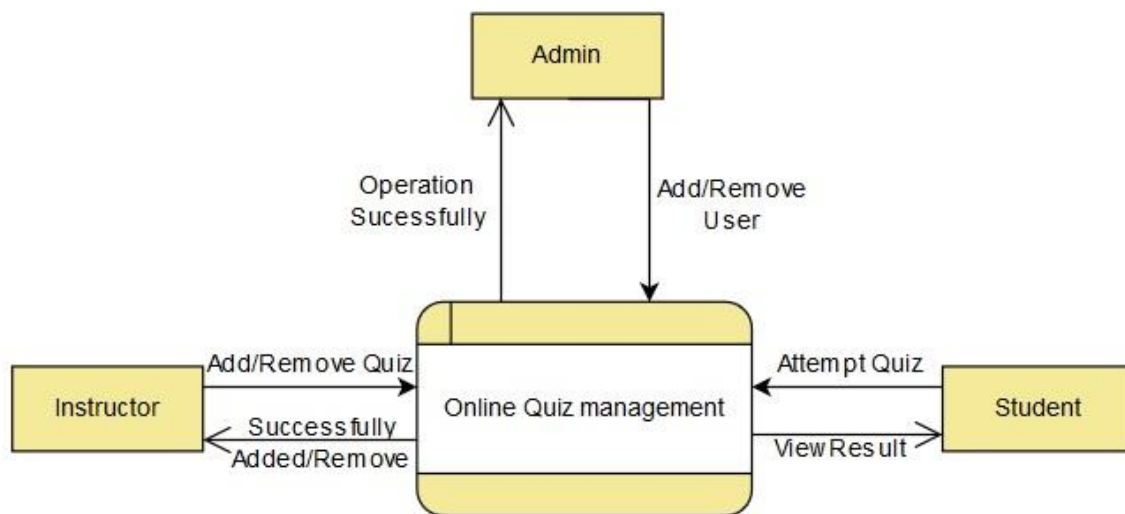


Figure 5.5.1

5.5.2 DFD 1 Admin :-

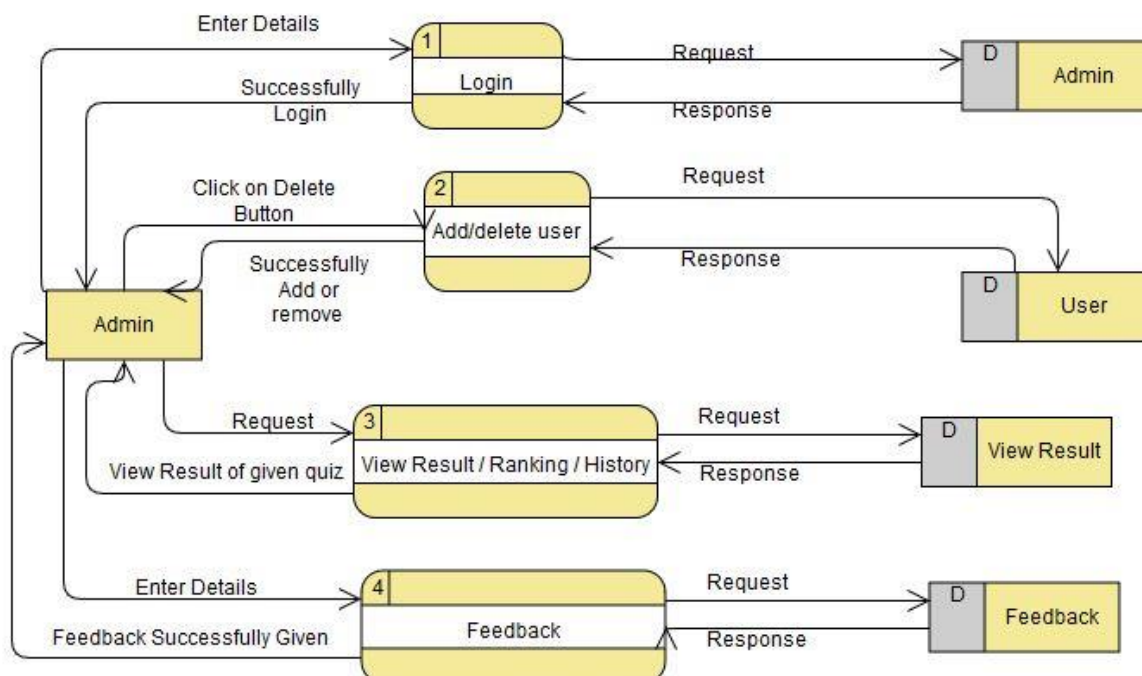


Figure 5.5.2

5.5.3 DFD 1 Instructor :-

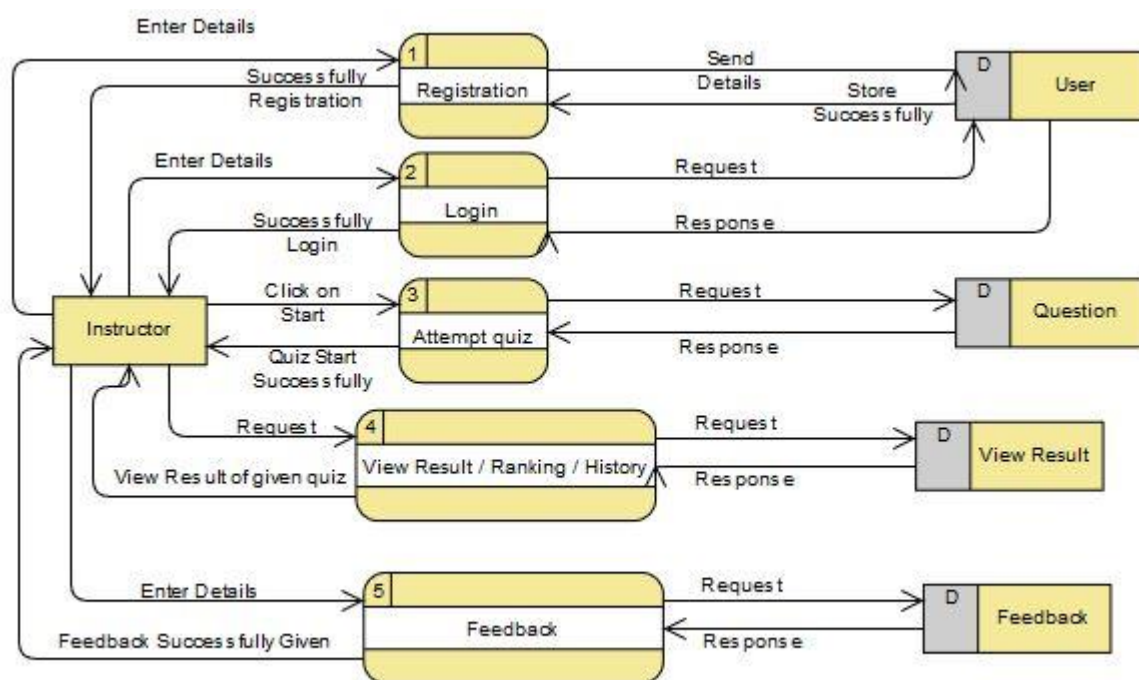


Figure 5.5.3

5.5.4 DFD 1 Student :-

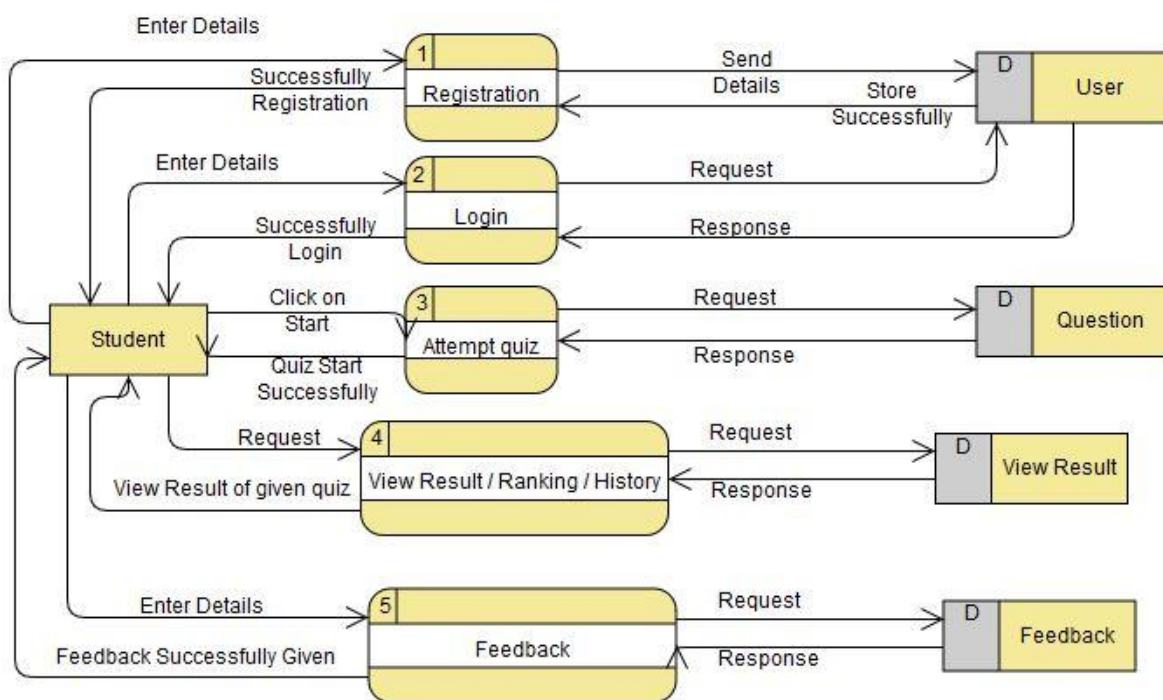


Figure 5.5.4

5.5.5 DFD 2 Admin :-

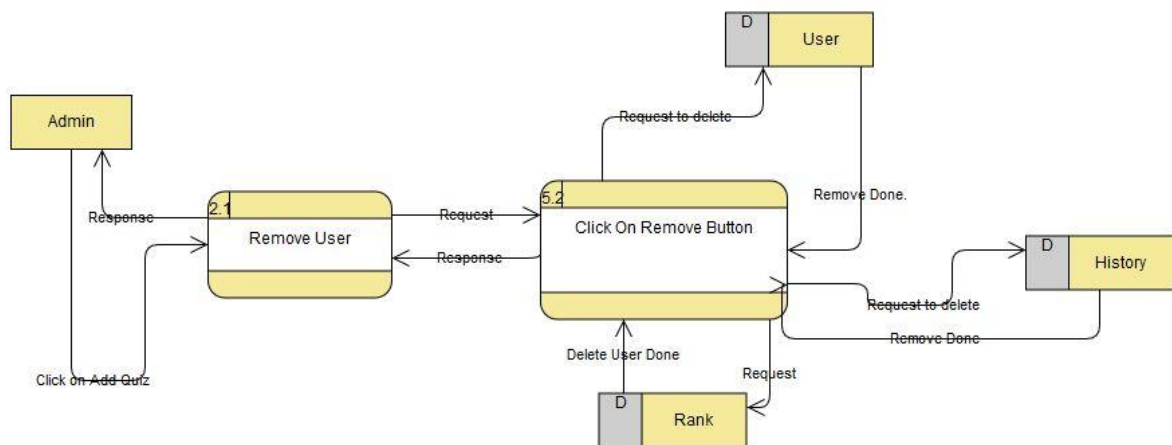


Figure 5.5.5

5.5.6 DFD 2 Instructor :-

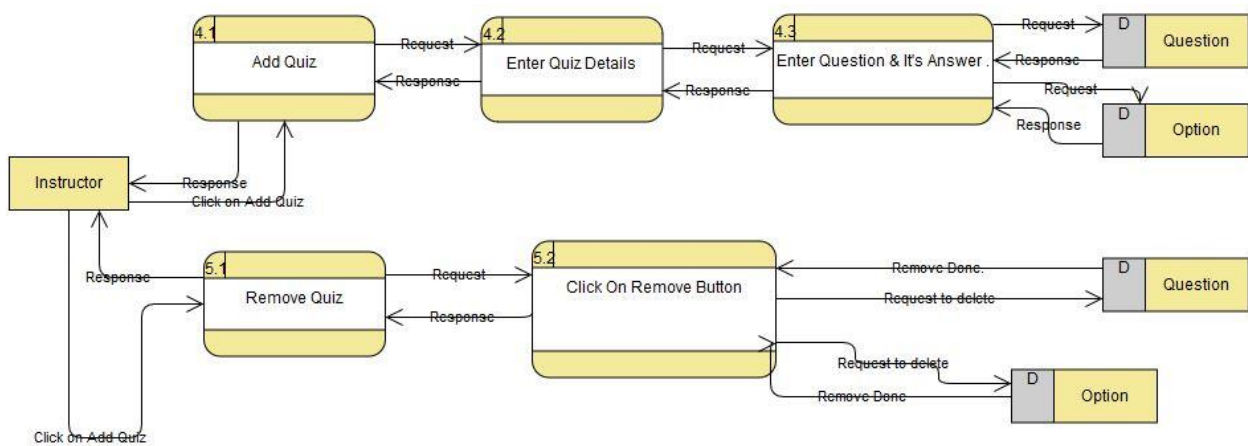


Figure 5.5.6

5.6 Table Structure

Database Tables :

5.6.1 User Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ID	INT	10	PRIMARYKEY	NOTNULL
2	NAME	VARCHAR	50	---	---
3	DOB	DATETIME	---	---	DATE OF BIRTH
4	GENDER	VARCHAR	10	---	---
5	COLLEGE	VARCHAR	50	---	---
6	UID	VARCHAR	50	---	USER ID
7	PWD	VARCHAR	20	---	PASSWORD
8	UTYPE	VARCHAR	20	---	USER TYPE

Table 5.6.1

5.6.2 Question Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ID	INT	10	PRIMARYKEY	NOTNULL
2	QUE	VARCHAR	500	---	QUESTION
3	AW	VARCHAR	500	---	ANSWER

Table 5.6.2

5.6.3 Answer Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ID	INT	10	FOREIGNKEY	NOTNULL
2	AW	VARCHAR	500	---	ANSWER

Table 5.6.3

5.6.4 Rank Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ID	INT	10	---	---
2	MARKS	VARCHAR	10	---	---

Table 5.6.4

5.6.5 Quiz Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	QUIZ NAME	VARCHAR	30	---	---
2	QUIZ DATE	DATETIME	---	---	---

Table 5.6.5

5.6.6 Feedback Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ID	TEXT	10	---	---
2	NAME	VARCHAR	50	---	---
3	EMAIL	VARCHAR	50	---	---
4	SUBJECT	VARCHAR	50	---	---
5	FEEDBACK	VARCHAR	500	---	---
6	DATE	DATE	---	---	---
7	TIME	VARCHAR	50	---	---

Table 5.6.6

5.6.7 Admin Table

Sr. No.	Filed Name	Data Type	Size	Constraints	Description
1	ADMIN_ID	INT	11	PRIMARYKEY	AUTO INCREMENT
2	EMAIL	VARCHAR	50	---	NULL
3	PASSWORD	VARCHAR	50	---	NULL

Table 5.6.7

5.7 Menu Design

5.7.1 Main Menu

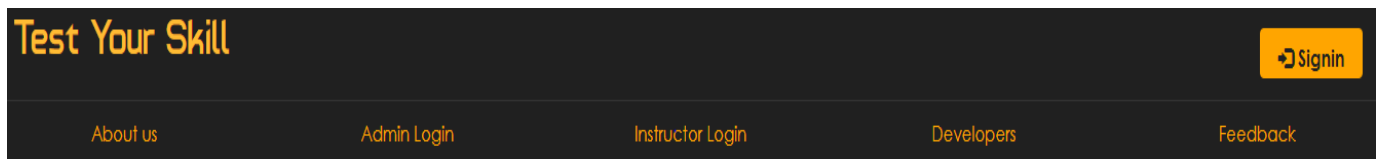


Figure 5.7.1

5.7.2 Admin Menu

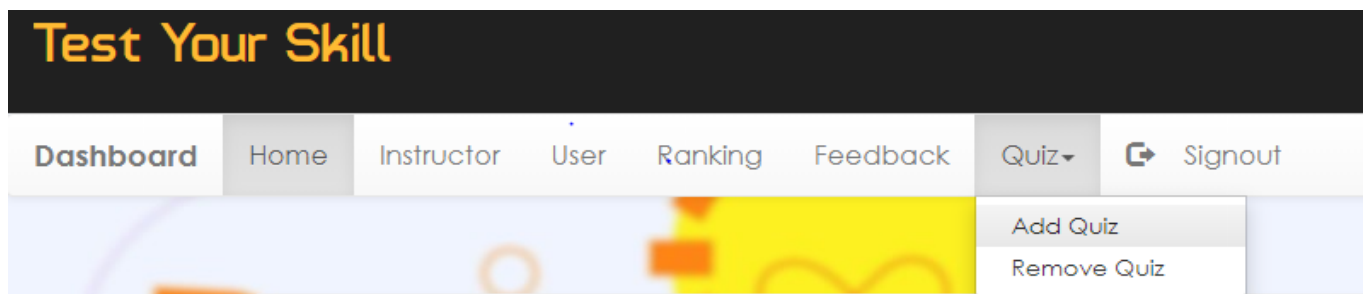


Figure 5.7.2

5.7.3 Instructor Menu

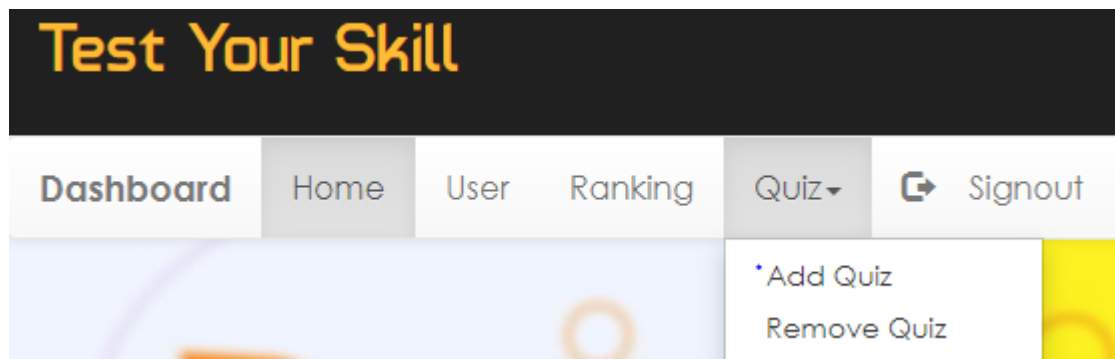


Figure 5.7.3

5.7.4 Student Login Menu

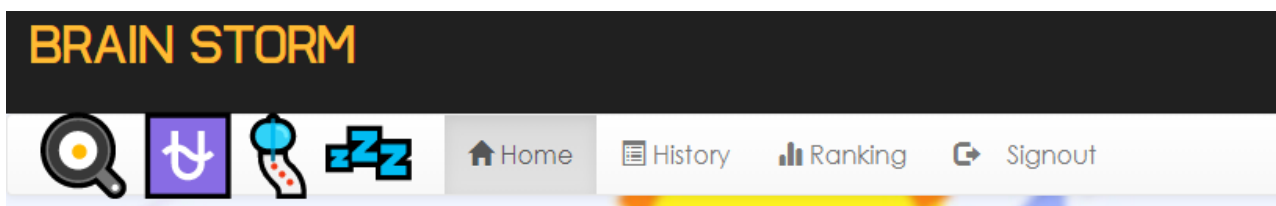
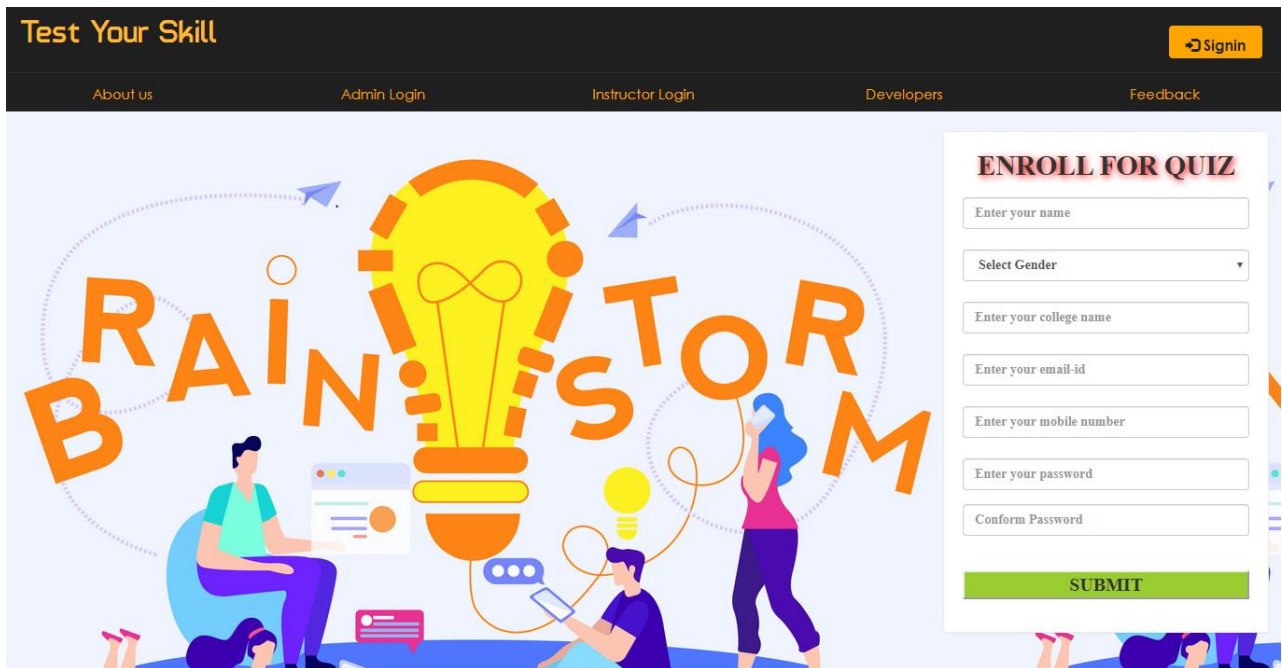


Figure 5.7.4

5.8 Screen Design

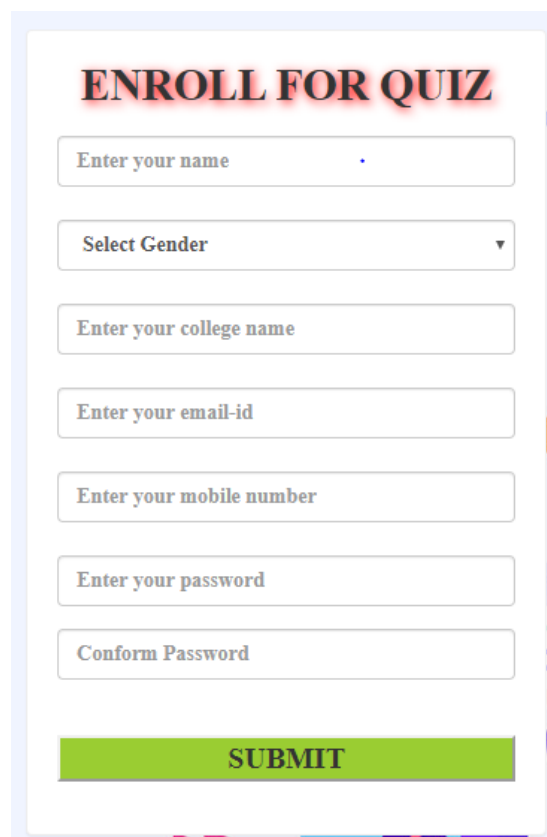
5.8.1 Main Page



The main page features a dark header with the text "Test Your Skill" on the left and a "Signin" button on the right. Below the header is a navigation bar with links: "About us", "Admin Login", "Instructor Login", "Developers", and "Feedback". The main content area has a large illustration of people interacting with a large lightbulb, with the word "BRAINSTORM" written in large, stylized letters. To the right of the illustration is a form titled "ENROLL FOR QUIZ" with the following fields: "Enter your name", "Select Gender" (dropdown), "Enter your college name", "Enter your email-id", "Enter your mobile number", "Enter your password", and "Conform Password". A green "SUBMIT" button is at the bottom of the form.

Figure 5.8.1

5.8.2.1 Student Signup



The student signup form is titled "ENROLL FOR QUIZ" and contains the following fields: "Enter your name", "Select Gender" (dropdown), "Enter your college name", "Enter your email-id", "Enter your mobile number", "Enter your password", and "Conform Password". A green "SUBMIT" button is located at the bottom of the form.

Figure 5.8.2.1

5.8.2.2 Student Login Page

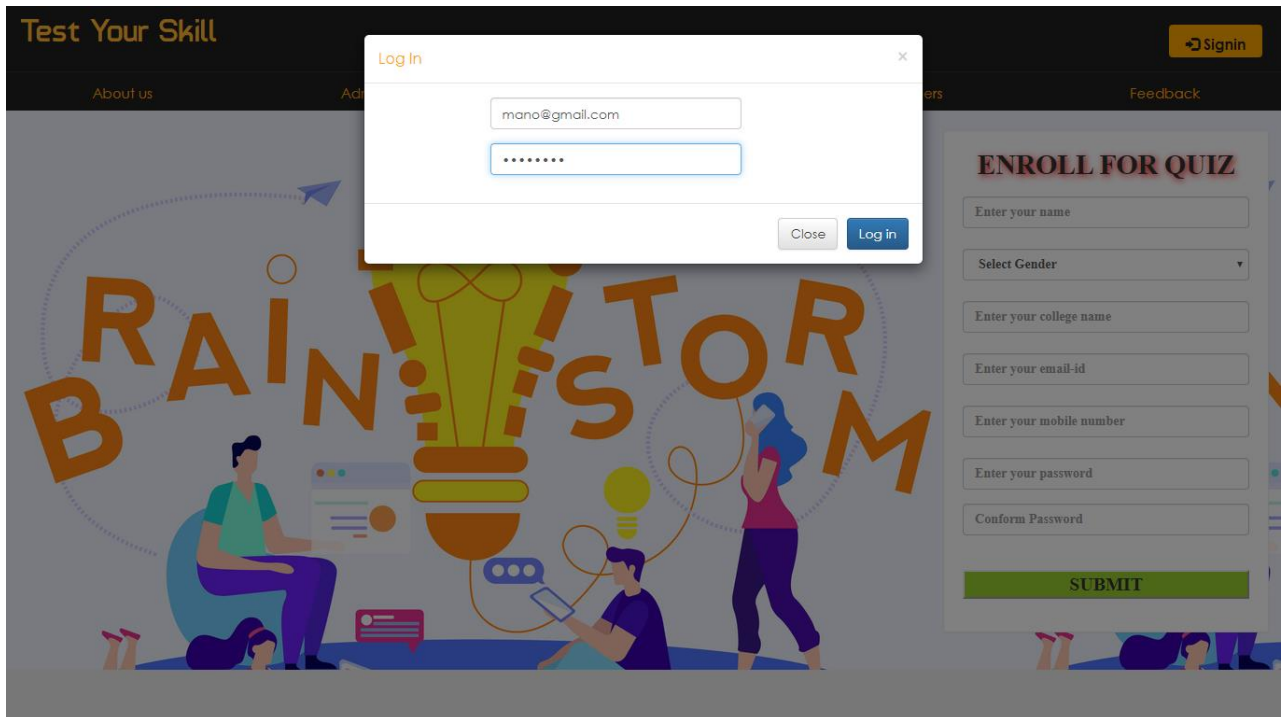


Figure 5.8.2.2

5.8.2.3 Student Home Page

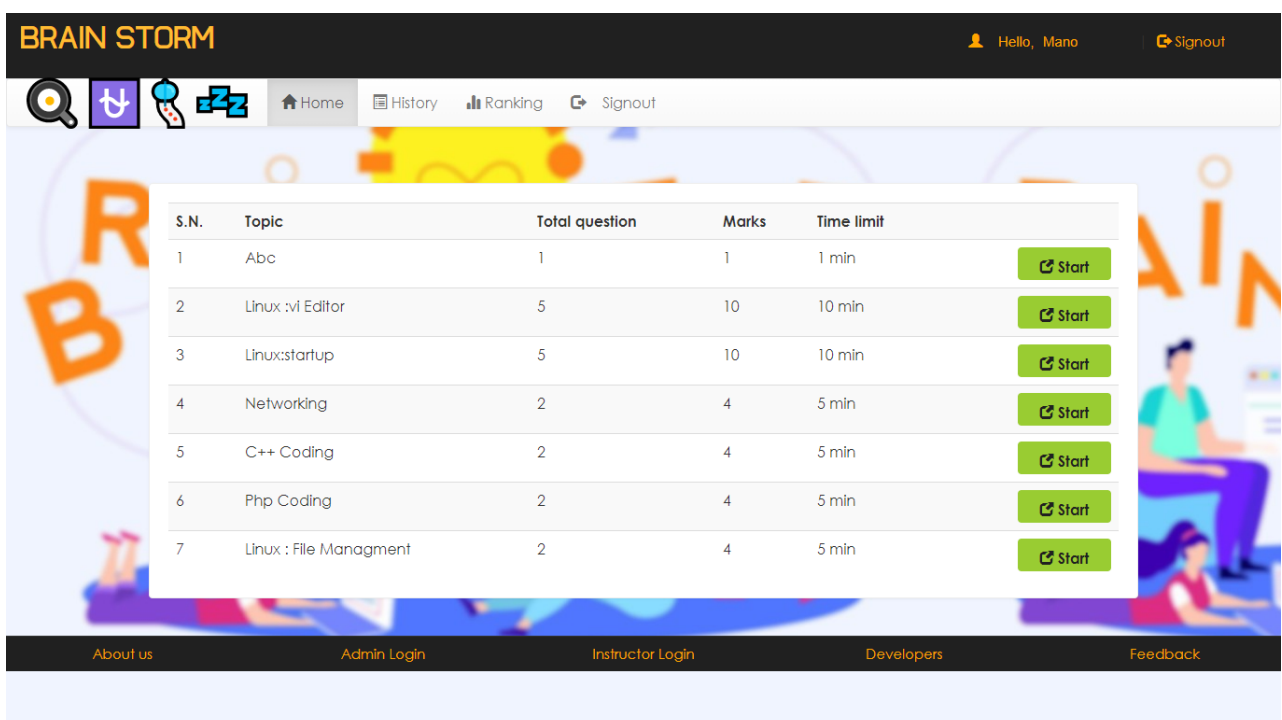


Figure 5.8.2.3

5.8.2.4 Student History Page

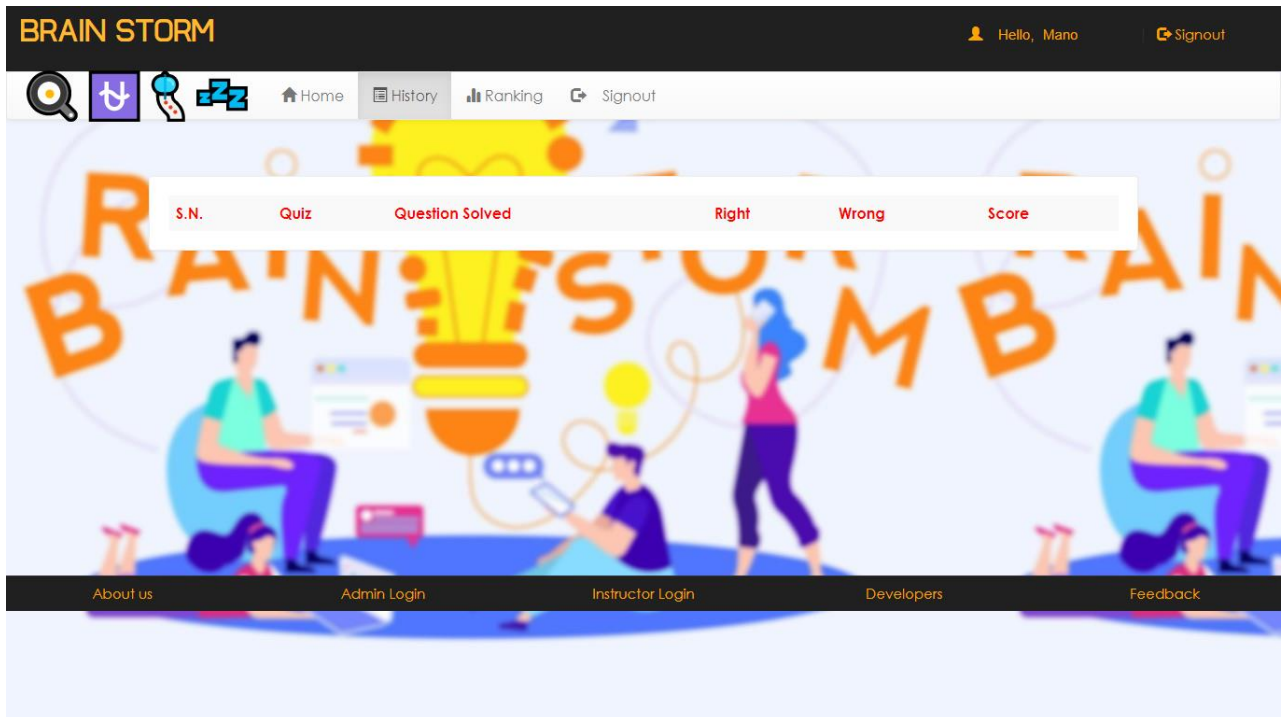


Figure 5.8.2.4

5.8.2.5 Student Ranking Page

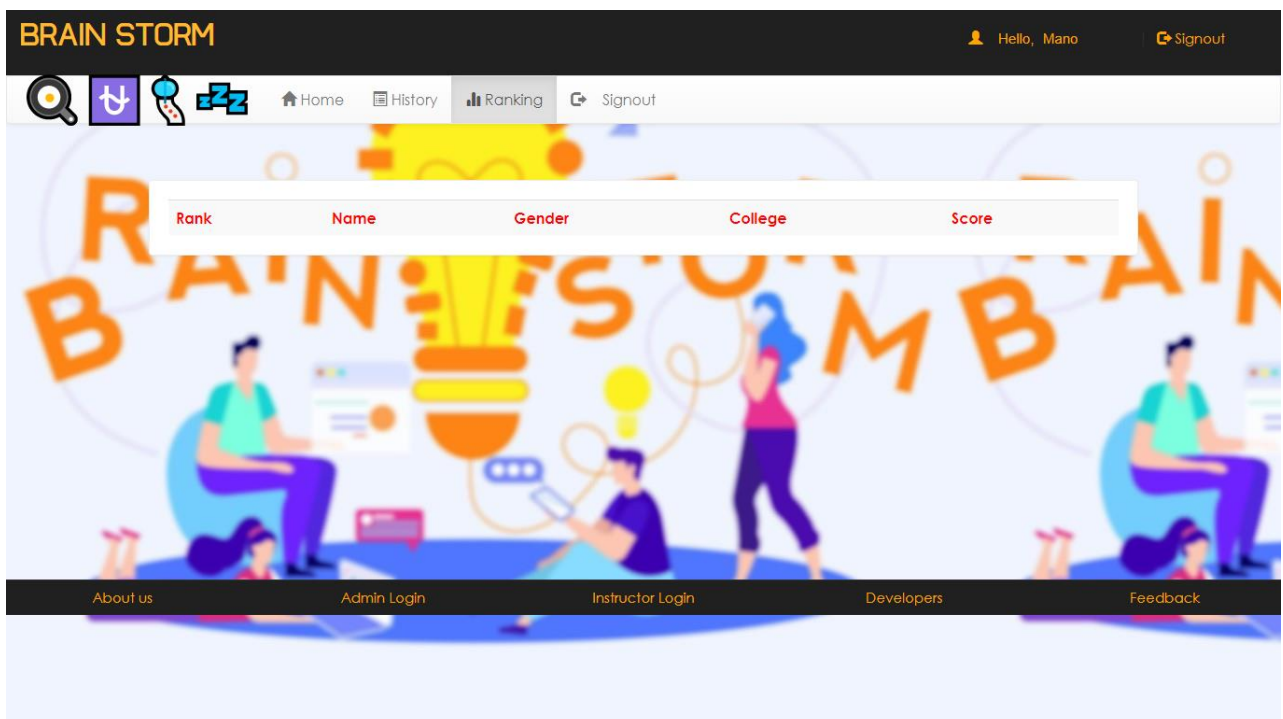


Figure 5.8.2.5

5.8.3.1 Admin Page

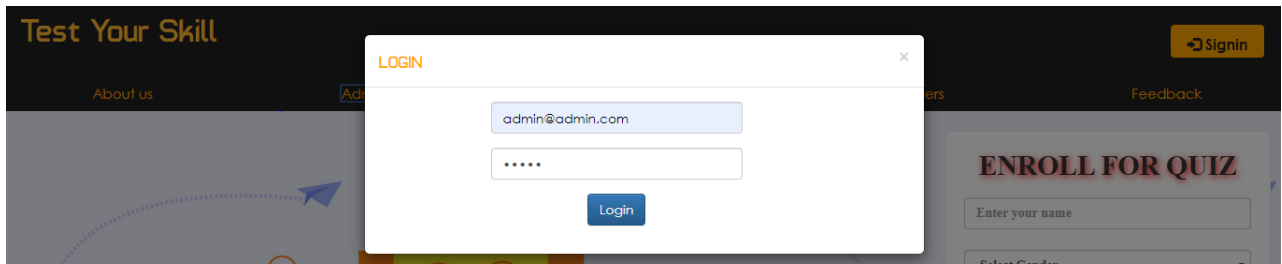


Figure 5.8.3.1

5.8.3.2 Admin Home Page

S.N.	Topic	Total question	Marks	Time limit	
1	Abc	1	1	1 min	Start
2	Linux :vi Editor	5	10	10 min	Start
3	Linux:startup	5	10	10 min	Start
4	Networking	2	4	5 min	Start
5	C++ Coding	2	4	5 min	Start
6	Php Coding	2	4	5 min	Start
7	Linux : File Managment	2	4	5 min	Start

Figure 5.8.3.2

5.8.3.3 Admin Instructor Page

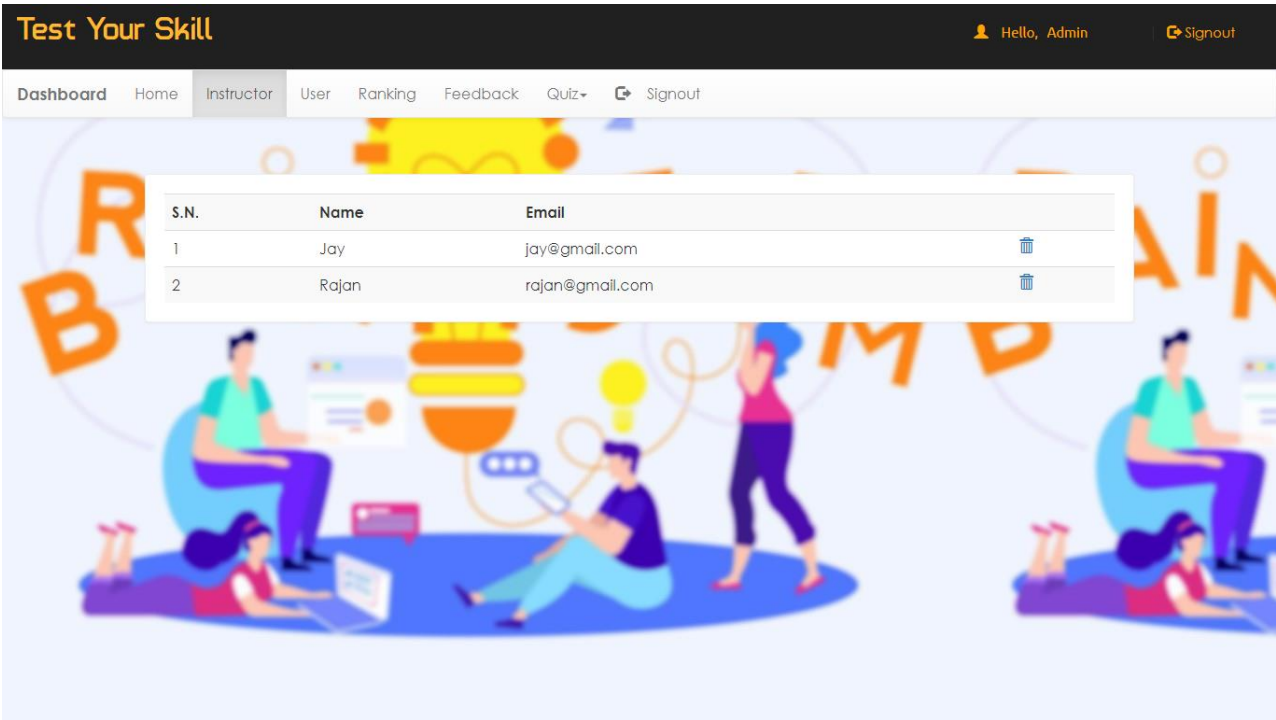


Figure 5.8.3.3

Figure 5.8.3.4

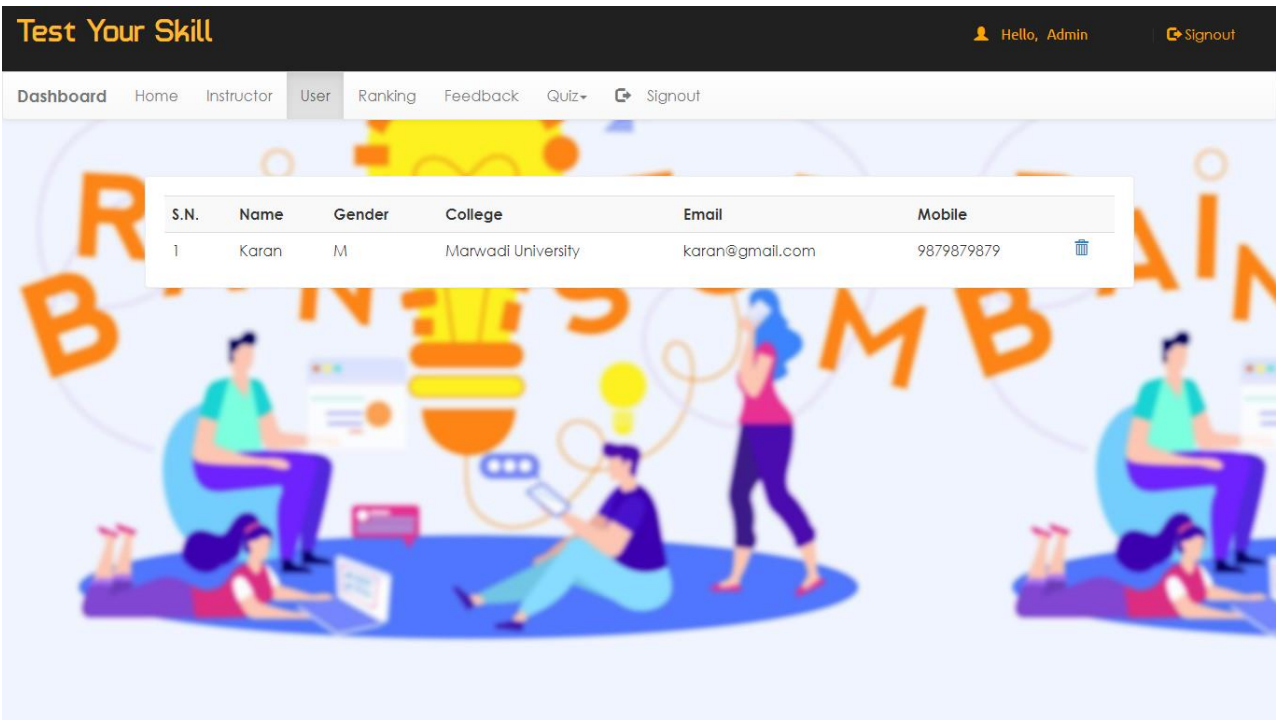


Figure 5.8.3.4

5.8.3.5 Admin Ranking Page

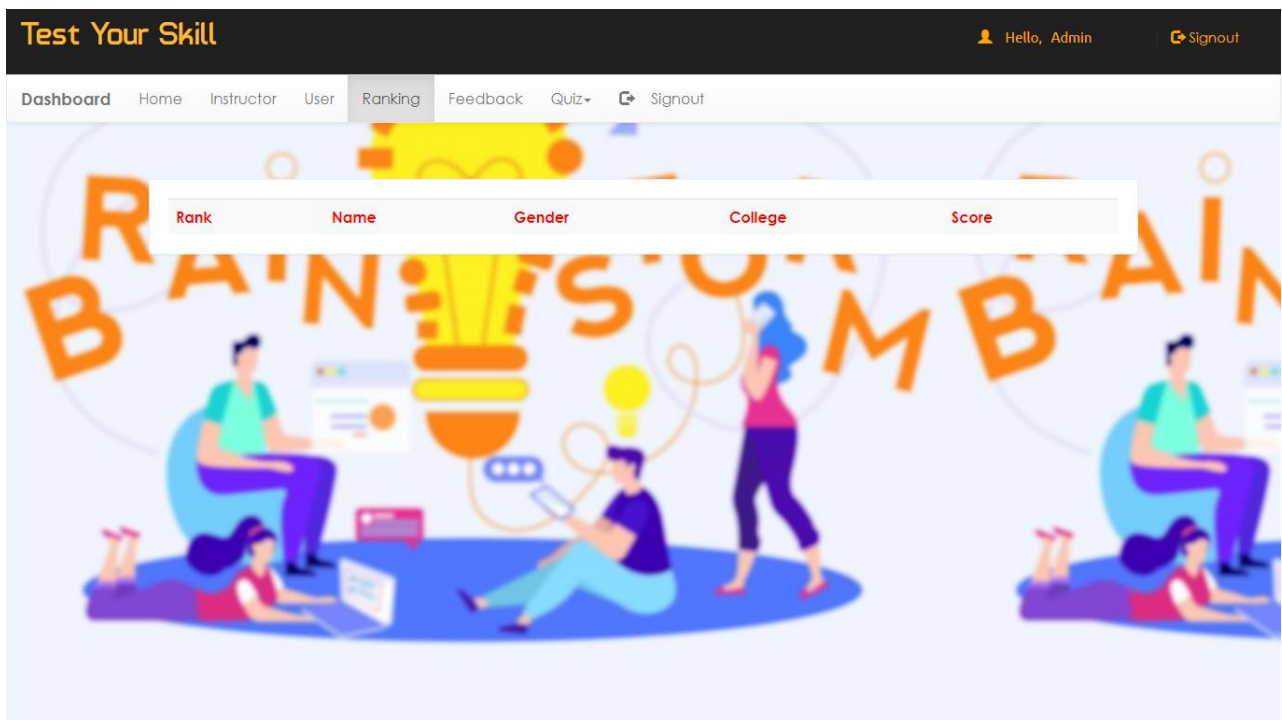


Figure 5.8.3.5

5.8.3.6 Admin Feedback Page

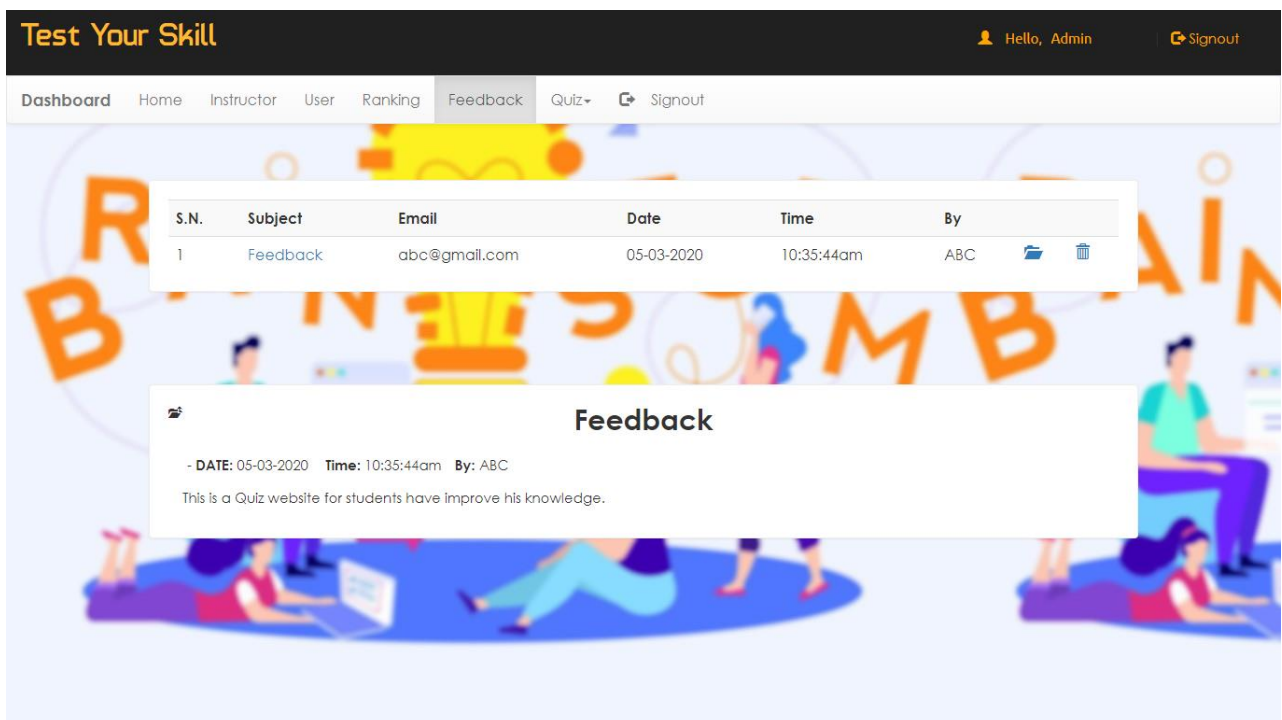
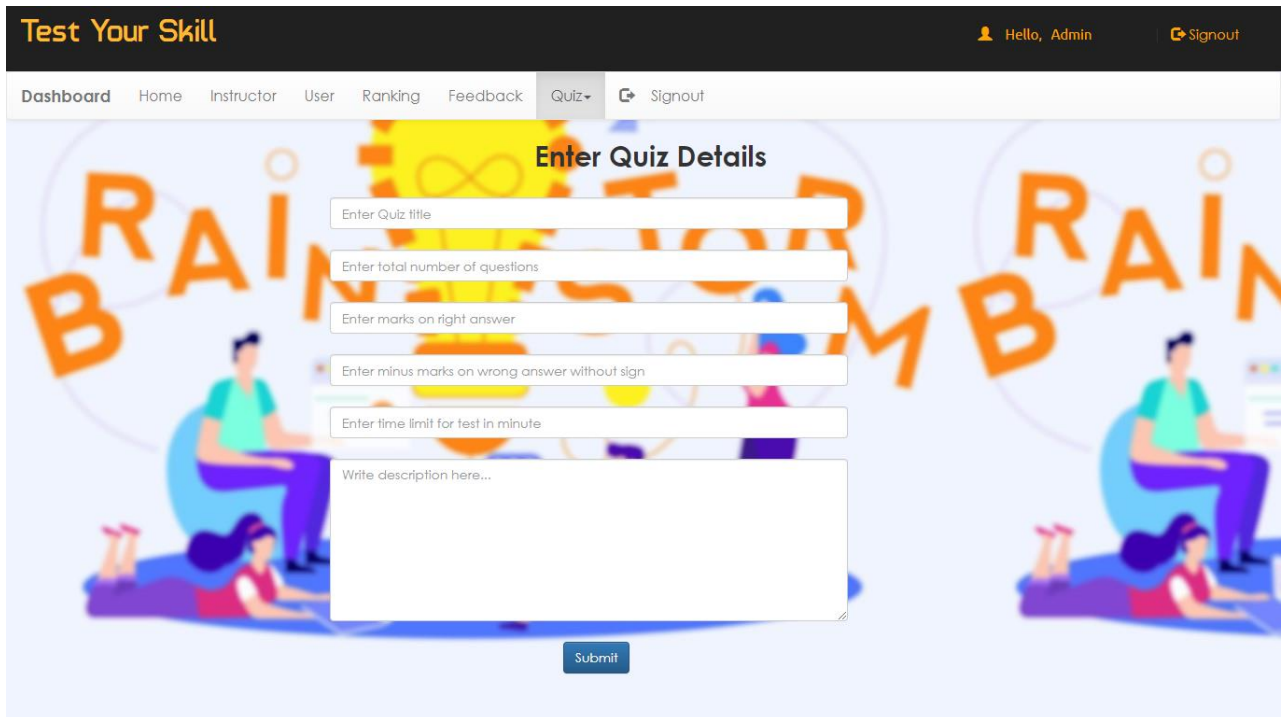


Figure 5.8.3.6

5.8.3.7 Admin Add Quiz Page



Test Your Skill Hello, Admin Signout

Dashboard Home Instructor User Ranking Feedback Quiz Signout

Enter Quiz Details

Enter Quiz title

Enter total number of questions

Enter marks on right answer

Enter minus marks on wrong answer without sign

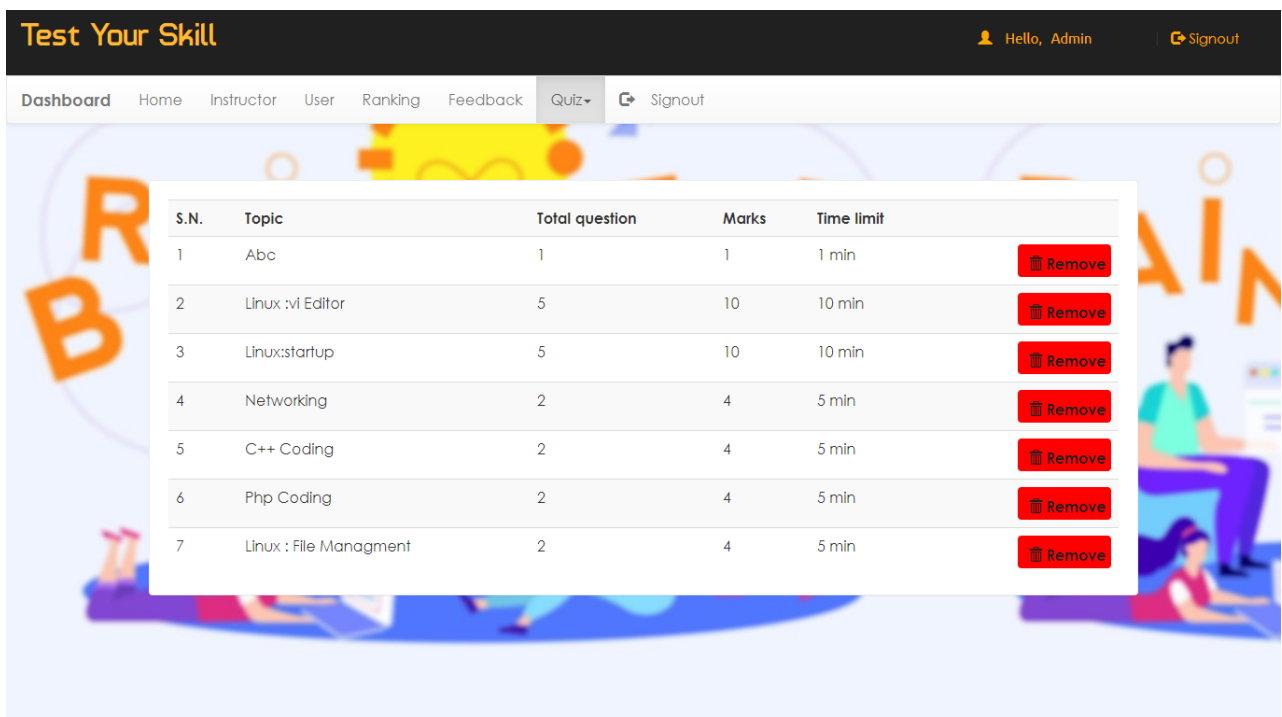
Enter time limit for test in minute

Write description here...

Submit

Figure 5.8.3.7

5.8.3.8 Admin Remove Quiz Page



Test Your Skill Hello, Admin Signout

Dashboard Home Instructor User Ranking Feedback Quiz Signout

S.N.	Topic	Total question	Marks	Time limit	
1	Abc	1	1	1 min	Remove
2	Linux :vi Editor	5	10	10 min	Remove
3	Linux:startup	5	10	10 min	Remove
4	Networking	2	4	5 min	Remove
5	C++ Coding	2	4	5 min	Remove
6	Php Coding	2	4	5 min	Remove
7	Linux : File Managment	2	4	5 min	Remove

Figure 5.8.3.8

5.8.4.1 Instructor Page

The screenshot shows a web application interface for 'Test Your Skill'. A modal window titled 'INSTRUCTOR SINGUP' is open in the center. The modal contains three input fields: a text field with 'Raj', an email field with 'raj@gmail.com', and a password field with six dots. A blue 'submit' button is at the bottom of the modal. In the background, the main page has a dark header with 'Test Your Skill' and a 'Signin' button. The main content area features a large illustration of people collaborating around a lightbulb with the words 'BRAINSTORM' in large letters. To the right, there is an 'ENROLL FOR QUIZ' section with several input fields and a 'SUBMIT' button.

Test Your Skill

About us

Signin

Feedback

ENROLL FOR QUIZ

Enter your name

Select Gender

Enter your college name

Enter your email-id

Enter your mobile number

Enter your password

Conform Password

SUBMIT

INSTRUCTOR SINGUP

Raj

raj@gmail.com

submit

Figure 5.8.4.1

5.8.4.2 Instructor Login Page

The screenshot shows the same web application interface as Figure 5.8.4.1. A modal window titled 'INSTRUCTOR LOGIN' is open in the center. The modal contains two input fields: an email field with 'raj@gmail.com' and a password field with six dots. Below the input fields are two buttons: 'Login' and 'Sign Up'. The background of the main page is identical to the previous figure, showing the 'Test Your Skill' header, 'Signin' button, 'BRAINSTORM' illustration, and 'ENROLL FOR QUIZ' section.

Test Your Skill

About us

Signin

Feedback

ENROLL FOR QUIZ

Enter your name

Select Gender

Enter your college name

Enter your email-id

Enter your mobile number

Enter your password

Conform Password

SUBMIT

INSTRUCTOR LOGIN

raj@gmail.com

Login

Sign Up

Figure 5.8.4.2

5.8.4.3 Instructor Home Page

Test Your Skill Hello, rajan@gmail.com Signout

Dashboard Home User Ranking Quiz Signout

S.N.	Topic	Total question	Marks	Time limit	
1	Abc	1	1	1 min	Start
2	Linux :vi Editor	5	10	10 min	Start
3	Linux:startup	5	10	10 min	Start
4	Networking	2	4	5 min	Start
5	C++ Coding	2	4	5 min	Start
6	Php Coding	2	4	5 min	Start
7	Linux : File Management	2	4	5 min	Start

Figure 5.8.4.3

5.8.4.4 Instructor User Page

Test Your Skill Hello, rajan@gmail.com Signout

Dashboard Home User Ranking Quiz Signout

S.N.	Name	Gender	College	Email	Mobile
1	Karan	M	Marwadi University	karan@gmail.com	9879879879

Figure 5.8.4.4

5.8.4.5 Instructor Ranking Page

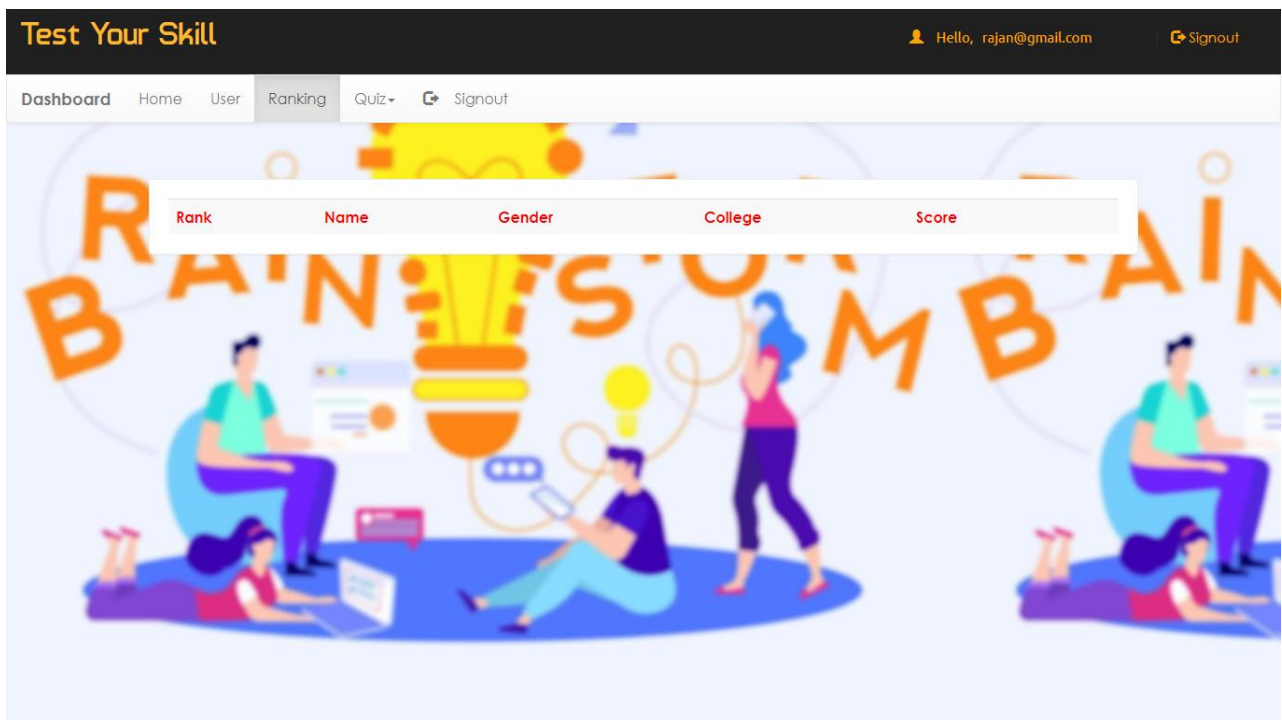


Figure 5.8.4.5

5.8.4.6 Instructor Add Quiz Page

The screenshot shows the 'Test Your Skill' application interface for adding a quiz. The top navigation bar is dark with the title 'Test Your Skill' on the left, a user profile 'Hello, rajan@gmail.com' on the right, and a 'Signout' button. Below this is a light-colored navigation menu with links: 'Dashboard', 'Home', 'User', 'Ranking', 'Quiz' (which is highlighted), and 'Signout'. The main content area features a large, colorful illustration of people studying and a lightbulb. Overlaid on this is a form titled 'Enter Quiz Details'. The form contains the following input fields:

- Enter Quiz title
- Enter total number of questions
- Enter marks on right answer
- Enter minus marks on wrong answer without sign
- Enter time limit for test in minute
- Enter #tag which is used for searching
- Write description here...

A 'Submit' button is located at the bottom of the form.

Figure 5.8.4.6

5.8.4.7 Instructor Remove Quiz Page

The screenshot shows a web application titled "Test Your Skill". At the top, there is a navigation bar with "Dashboard", "Home", "User", "Ranking", "Quiz", and "Signout". The "Quiz" tab is active. Below the navigation bar, a table lists seven quizzes. Each row in the table includes a serial number (S.N.), the topic, the total number of questions, the marks, the time limit, and a red "Remove" button with a trash icon.

S.N.	Topic	Total question	Marks	Time limit	
1	Abc	1	1	1 min	Remove
2	Linux :vi Editor	5	10	10 min	Remove
3	Linux:startup	5	10	10 min	Remove
4	Networking	2	4	5 min	Remove
5	C++ Coding	2	4	5 min	Remove
6	Php Coding	2	4	5 min	Remove
7	Linux : File Management	2	4	5 min	Remove

Figure 5.8.4.7

5.8.5 Developers Page

The screenshot shows the "Test Your Skill" dashboard. A modal window titled "Developers" is open in the center, displaying two developer profiles. Each profile includes a photo, a name, a phone number, an email address, and the university affiliation. To the right of the modal, there is a form titled "ENROLL FOR QUIZ" with fields for name, gender, college name, email-id, mobile number, password, and confirm password, followed by a "SUBMIT" button. The background of the dashboard features a large "BRAIN" graphic and illustrations of people studying.

Developers

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Gujarat, INDIA

ENROLL FOR QUIZ

Enter your name
Select Gender
Enter your college name
Enter your email-id
Enter your mobile number
Enter your password
Conform Password
SUBMIT

Figure 5.8.5

5.8.6 Feedback Page

Test Your Skill

[Home](#)[Signin](#)

FEEDBACK/REPORT A PROBLEM

You can send us your feedback through e-mail on the following e-mail id:

rajan.thakkar102521@marwadiversity.ac.in

Or you can directly submit your feedback by filling the enteries below:-

Name:

Subject:

E-Mail address:

Write feedback here...

Figure 5.8.6

6. SYSTEM TESTING

6.1 Testing Methodology

Black box Testing

Black box testing is a software testing techniques in which Functionality of the software under test (SUT) is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software. This type of testing is based entirely on the software requirements and specification.

6.1.1 Black Box Testing Diagram

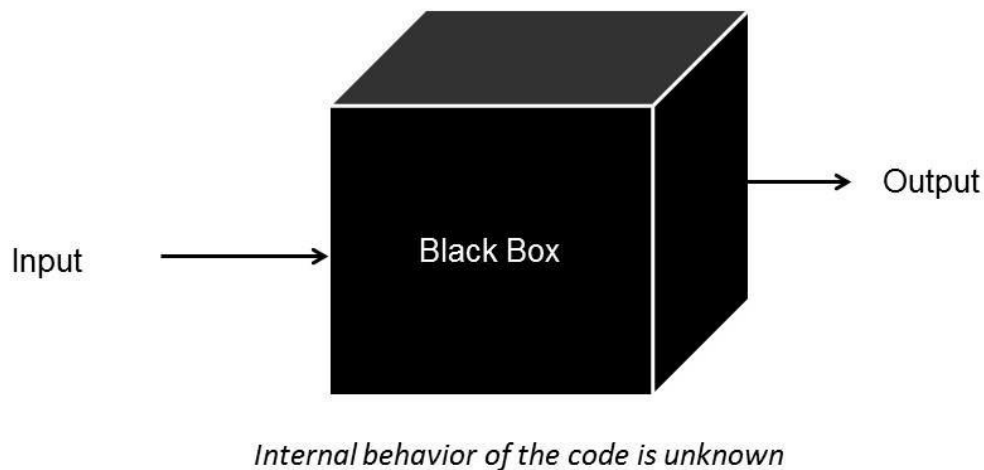


Figure 6.1.1

The above Black Box can be any software system you want to test. For example : an operating system like Windows, a website like Google ,a database like Oracle or you're your own custom application. Under Black Box Testing, one can test these applications by just focusing on the inputs and outputs without knowing their internal code implementation.

White Box Testing

- White Box Testing is the testing of a software solution's internal coding and infrastructure. It focuses primarily on strengthening security, the flow of inputs and outputs through the application, and

improving design and usability. White box testing is also known as clear, open, structural, and glass box testing.

- White box testing is based on the inner workings of an application and revolves around internal testing. The term "white box" was used because of the see-through box concept.
- The clear box or white box name symbolizes the ability to see through the software's outer shell (or "box") into its inner workings.

6.1.2 Black Box Testing Diagram

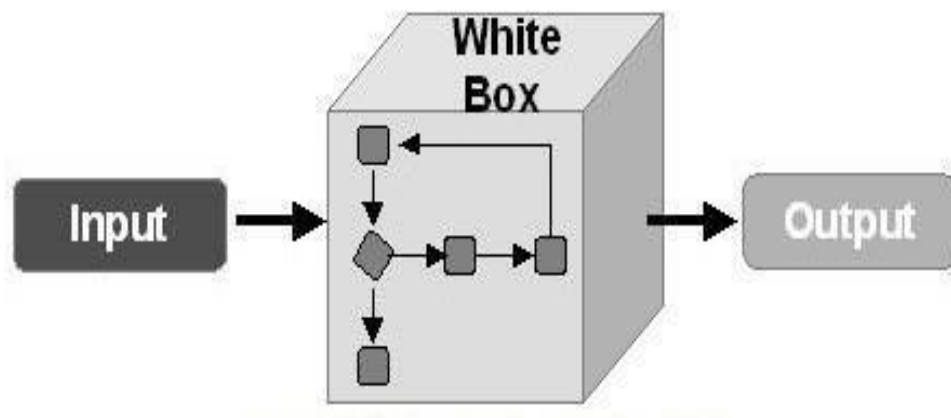


Figure 6.1.2

6.2 Unit Testing

Unit testing is a level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unit of the software performs as designed. This type of testing is performed by the developers before the setup is handed over to the testing team to formally execute the test cases. Unit testing is performed by the respective developers on the individual units of source code assigned areas. The developers use test data that is separate from the test data of the quality assurance team.

- The goal of unit testing is to isolate each part of the program and show that individual parts are correct in terms of requirements and functionality.
- The limitation of Unit Testing is that this Testing cannot catch each and every bug in an application. It is impossible to evaluate every execution path in every software application. The same is the case with unit testing.

Function Name :

We have covered following functions as a unit testing.

- (1) validateForm()
- (2) secondPassed()

6.3 Validation Checking

6.3.1 Test Case - 1 (Name Filed)

Class	Student Registration
Description	To check field is not null
Input	Name
Valid	Successful registration
Invalid	Display message Name must be filled out.

Table 6.3.1

6.3.2 Test Case - 2 (College Filed)

Class	Student Registration
Description	To check field is not null
Input	College
Valid	Successful registration
Invalid	Display message College must be filled out.

Table 6.3.2

6.3.3 Test Case - 3 (Email Filed)

Class	Student Registration
Description	To check field is not null
Input	Email
Valid	Successful registration
Invalid	Display message Not a valid e-mail address.

Table 6.3.3

6.3.4 Test Case - 4 (Mobile Number Filed & Length Check)

Class	Student Registration
Description	To check Valid Mobile Number
Input	Mobile Number
Valid	Successful
Invalid	Display message Invalid mobile number

Table 6.3.4

6.3.5 Test Case - 5 (Password Filed & Length Check)

Class	Student Registration
Description	To check field is not null and also check the password must be 6 to 25 character long.
Input	Password
Valid	Successfully registered
Invalid	Display message Password must be filled out.

Table 6.3.5

7. Conclusion

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the efficiency.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

8. LEARNING DURING PROJECT WORK

In a subject we only learn PHP but in actual programming we learn how to use all types of other programming languages like CSS, PHP, Bootstrap, jQuery, JavaScript in one project.

9. Bibliography

9.1 Online References

[1] www.w3schools.com

[2] www.stackoverflow.com

9.2 Offline References

PHP : The Complete Reference